

NOV 25 2003
PATENT & TRADEMARK OFFICE

Fig. 1 Ethylbenzene Synthesis with Alumina-Bound MCM-22

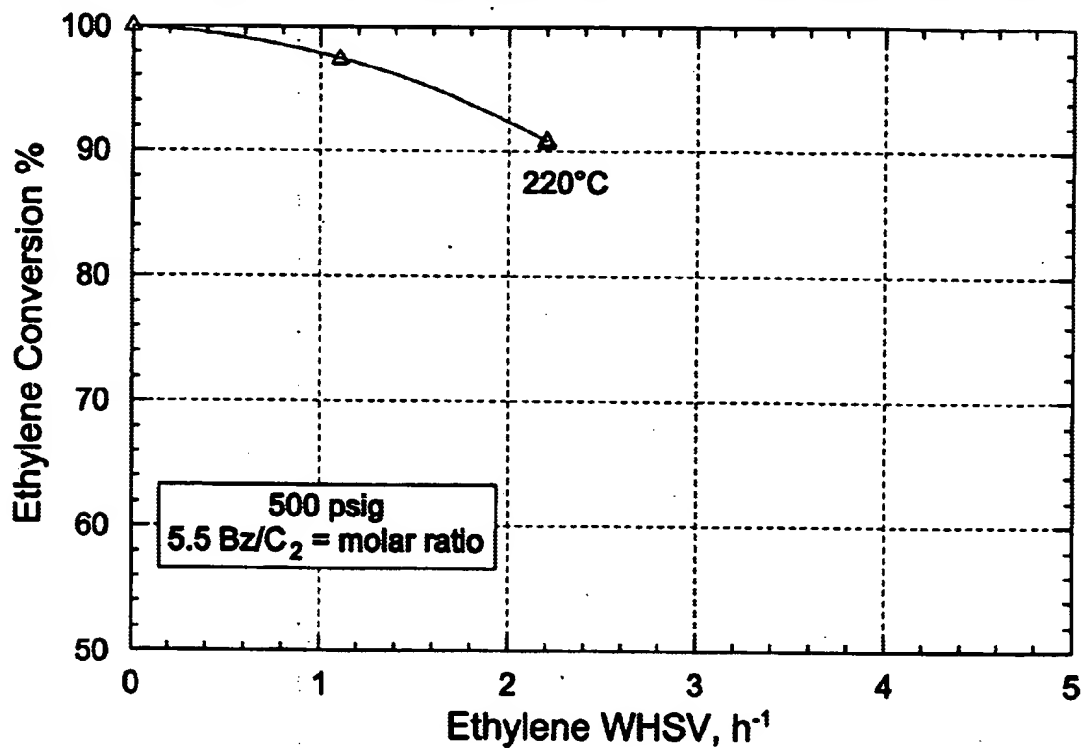


Fig. 2 Ethylbenzene Synthesis with Self-Bound MCM-22

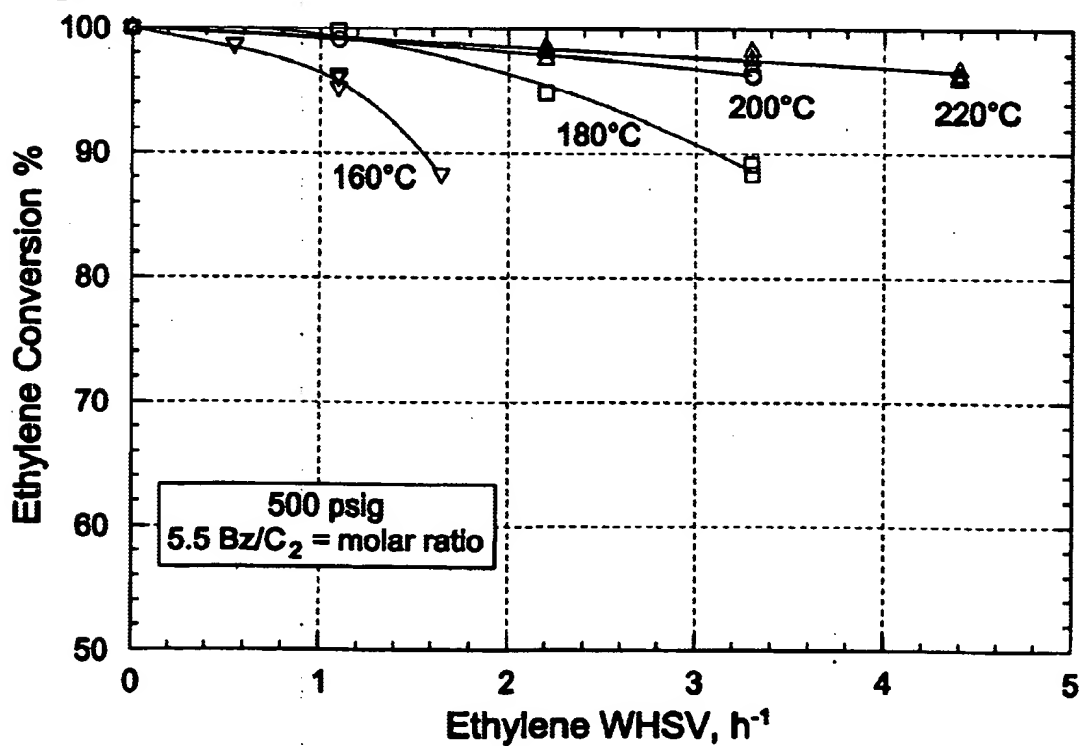




Fig. 3 Cumene Synthesis with MCM-22

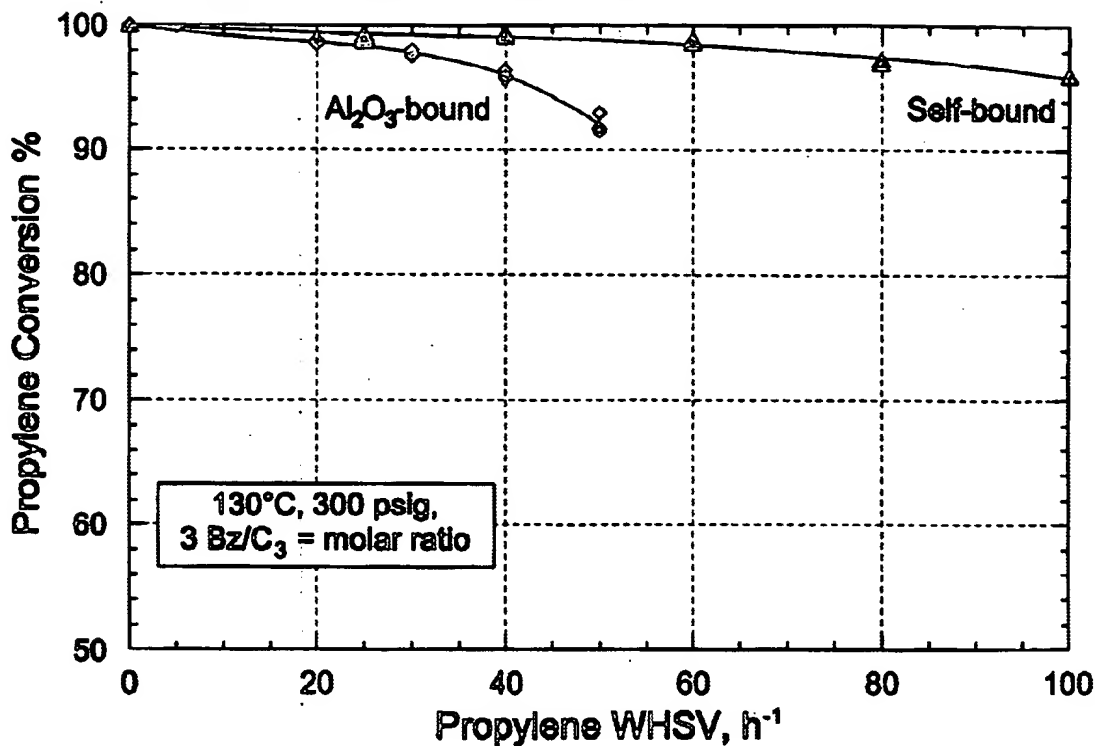
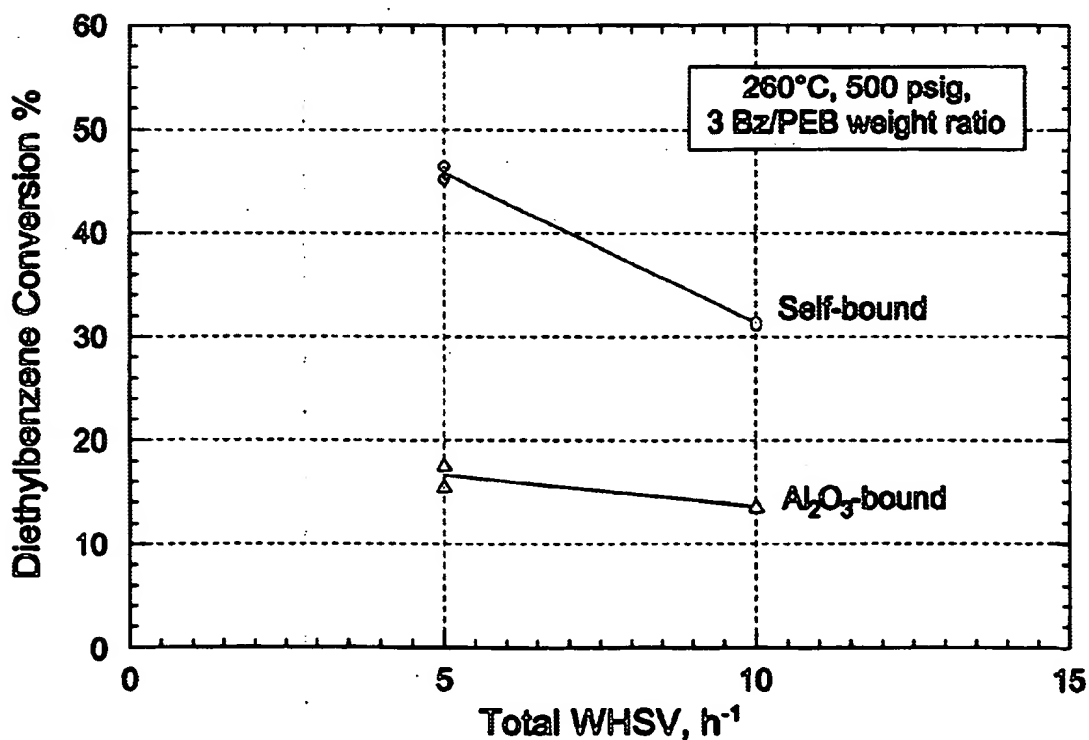
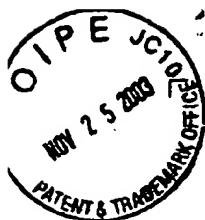


Fig. 4 Ethylbenzene Synthesis via Benzene/PEB
Transalkylation with MCM-22





**Fig. 5 Cumene Synthesis via Benzene/DIPB
Transalkylation with MCM-22**

